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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-03-02**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03
Agency	:	Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/108/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-02/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-01-18

Date: 05-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	540	673	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	565	681	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	581	688	19.0%	Satisfactory	Satisfactory

Note:

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CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer,
Project Division,
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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-08-02** **Date: 12-01-18**

Customer : Assistant Executive Engineer, Project division, BBMP, Bangalore.

Address : Project division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03

Agency : Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/108/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-02/01

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.22	100.27	1.325	4443	73.5	16.5	15.4	19.2
2	Cover Slab-2	75.48	100.33	1.417	4474	77.3	17.3	16.1	20.1
3	Cover Slab-3	75.29	100.48	1.385	4451	74.9	16.8	15.6	19.6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-03-02** **Date: 05-01-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03
Agency	:	Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/108/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.2	–
2	Finess by Air permeablity method (m^2/kg, Min)	269.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Yelahanka Zone
Bangalore

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-03-02** **Date: 31-01-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03
Agency	:	Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/108/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-01-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-03-02** **Date: 06-01-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03
Agency	:	Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/108/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	652	652	4.3	95.7	90-100
3	20 mm	4151	4803	32.0	68.0	30-70
4	10 mm	5134	9937	66.2	33.8	10-35
5	4.75 mm	4437	14374	95.8	4.2	0-5
6	Pan	626	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-03-02** **Date: 06-01-18**

Sample ID No : 2018-01-03-02/02(a)

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**9.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**1.61**	–
4	Bulk Density(Loose) (Kg/l)	**1.47**	–
5	Bulk Density(Compacted) (Kg/l)	**2.56**	–
6	Water Absorption(%)	**0.21**	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-01-03-02 **Date: 06-01-18**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 9th main road from 3rd cross to dead end at Attur layout in Ward no.03
Agency	:	Sri. Ramesh Y. B , No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/Ynk Zone/WO/108/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	158	158	3.2	96.8	90-100
3	10 mm	2786	2944	58.9	41.1	25-55
4	4.75 mm	1686	4630	92.6	7.4	0-10
5	Pan	370	5000	100	0	–

Asst. Executive Engineer
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Yelahanka Zone
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-03-02** **Date: 06-01-18**

Sample ID No : 2018-01-03-02/02(b)

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**13.6**	
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.25**	_
7	Aggregate crushing Value(%)	**26.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.2**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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